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(Rev 8-93)

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Patent and Trademark Office

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Andrew D. MURDIN (March 5, 2001)
 Raymond P. OOMEN (February 27, 2001)
 Joe WANG (March 8, 2001)
 Pamela DUNN (March 1, 2001)

2. Name and address of receiving party(ies):

AVENTIS PASTEUR LIMITED
 Connaught Campus
 1755 Steeles Avenue West
 Toronto, Ontario M2R 3T4
 Canada

Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

(same as above)

Additional name(s) & address(es) attached? NO

4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is:

A. Patent Application Number(s):

APPL_NO

B. Patent Number(s):

Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Michela M. Simkin
 FOLEY & LARDNER
 Washington Harbour
 3000 K Street, N.W., Suite 500
 Washington, D.C. 20007-5109

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Check Enclosed

Charge to deposit account

8. Deposit account number: 19-0741

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9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Michela M. Simkin

June 28, 2001

Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 5

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ASSIGNMENT

WHEREAS, we, ANDREW D. MURDIN, a citizen of the United Kingdom, RAYMOND P. OOMEN, JOE WANG, both citizens of Canada, and PAMELA DUNN, a citizen of the United Kingdom (hereinafter referred to as the "Assignors"), residing at, respectively,
11 Forest Hill Drive, Richmond Hill, Ontario, L4B 3C2, Canada;
29 Kennedy St. W., Aurora, Ontario, L4G 2L6, Canada;
51 Aspenwood Drive, Toronto, Ontario, M2H 2E8, Canada; and
97 Rosebury Lane, Woodbridge, Ontario, L4L 3Z1, Canada,
have made certain inventions and discoveries disclosed in International Patent Application Serial No. PCT/CA99/01224, entitled "Chlamydia Antigens and Corresponding DNA Fragments and Uses Thereof", filed on December 22, 1999, and United States Patent Application Serial Number 09/471,194, filed on December 23, 1999, both claiming priority from
United States Provisional Patent Application Serial No. 60/114,060, filed on December 28, 1998;
United States Provisional Patent Application Serial No. 60/123,967, filed on March 12, 1999; and
United States Provisional Patent Application Serial No. 60/141,271, filed on June 30, 1999;
(hereinafter collectively referred to as the "Applications");

AND WHEREAS, AVENTIS PASTEUR LIMITED, whose full post office address is
Connaught Campus, 1755 Steeles Avenue West, Toronto, Ontario, M2R 3T4, Canada,
(hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest in and to said inventions and discoveries, and in and to the Applications inclusive of any and all priority rights derived therefrom for any and all countries in the world, and in and to any and all Letters Patent issuing in any and all countries in the world, to be granted for said inventions and discoveries based on any or all of said Applications or on patent applications filed in any country claiming priority from any or all of said Applications;

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the Assignors, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, our entire right, title, and interest in and to the inventions and discoveries disclosed in the Applications, and in and to the Applications and any continuations or divisions thereof and all priority rights derived therefrom, and in and to any and all patent applications and any continuations or divisions thereof filed in any country claiming priority from any of the Applications, and in and to all Letters Patent which may be granted upon the Applications or upon patent applications filed in any and all countries in the world claiming priority from any of the Applications, and in and to any and all reissues, substitutions, or prolongations thereof; the same to be held and enjoyed by the Assignee for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term of terms for which said Letters Patent, or reissues, substitutions, or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND we hereby agree that, upon request, and without further consideration, but at the expense of the Assignee, we will communicate to the Assignee or its representatives or nominees any

facts known to us respecting said inventions and discoveries and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protect for said inventions and discoveries in all countries, and we further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to said inventions and discoveries, and in and to any and all Letters Patent or reissues thereof which may be granted upon applications in any and all countries in the world.

AND we hereby authorize and request any official whose duty it is to issue patents to issue each and every Letters Patent to be granted upon the aforesaid applications in any and all countries, and each and every reissue of said Letters Patent, to the Assignee, its successors and assigns, as the assignee of our entire right, title and interest therein, in accordance with this assignment.

THIS assignment made effective as of the international filing date.

SIGNED at Toronto, this 5th day of March, 2001.

Nadia Demers

WITNESS:

Andrew D. Mordin
ANDREW D. MURDIN

SIGNED at Toronto, this 24th day of Feb., 2001.

Nadia Demers

WITNESS:

Raymond P. Oomen
RAYMOND P. OOMEN

SIGNED at Toronto, this 8 day of March, 2001.

Nadia Demers

WITNESS:

Joe Wang
JOE WANG

SIGNED at Toronto, this 1st day of March, 2001.

Nadia Demers

WITNESS:

Pamela Dunn
PAMELA DUNN

ACKNOWLEDGED AND ACCEPTED at Toronto, this 3 day of March, 2001.

AVENTIS PASTEUR LIMITED

BY: 

Pierre Meulien

print name

[corporate seal]

Sr. V.P. R&D
title

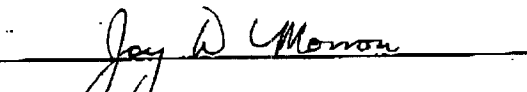
NOTARIAL CERTIFICATE

PROVINCE OF ONTARIO)

TO WIT)

I, Joy Dora Morrow, a Notary Public in and for the Province of Ontario, by Royal authority duly appointed, residing at the City of Ottawa, in the said province, do certify that the paper writing hereto annexed is a true copy of a document produced and shown to me and purporting to be an original assignment from Andrew D. Murdin, Raymond P. Oomen, Joe Wang and Pamela Dunn to Aventis Pasteur Limited being executed March 5, 2001, February 27, 2001, March 8, 2001 and March 1, 2001, respectively, the said copy having been compared by me with the said original document, an act whereof being requested I have granted my notarial form and seal of office to serve and avail as occasion shall or may require.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my notarial seal this 28th day of May 2001, at the City of Ottawa, Canada.


A Notary Public in and for
the Province of Ontario